	Application No.	Applicant(s)
Notice of Allowability	09/680,030	COAD ET AL.
	Examiner	Art Unit	
	CHAMELI C. DAS	2122	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the amendment filed 6/22/04*.

2. ☒ The allowed claim(s) is/are *1-4, 15-20, 27, 29-32, 43-48 and 55 (the newly numbered claims are 1-22)*.

3. ☒ The drawings filed on *03 October 2000* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

    Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *9/16/04* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

1.   This action is in response to the amendment filed on 6/22/04.

2.   Claims 1-4, 15-20, 27, 29-32, 43-48 and 55 have been allowed.

EXAMINER'S AMENDMENT

3   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Ms. JiNan Glasgow, applicant's attorney on 9/16/04

The application has been amended as follows:

(1)   The Abstract of the disclosure has been replaced by the following Abstract.

--The present invention relates a method and systems for generating,

applying and defining patterns for software development. The software

development tool receives an indication of a pattern, generates software code

reflecting the pattern, and stores identification information for the pattern in a

comment associated with the generated software code. The software development

tool receives an indication of the software element, determines whether the

software element is capable of playing the role, and when it is determined that the

software element is capable of playing the role, designates that the software

element plays the role in the pattern. The software development tool displays a

plurality of software elements to a user, receives an indication of a selected one of

the plurality of software elements, receives an indication of a user-defined pattern role that the selected software element plays in a pattern, and stores the plurality of software elements as the pattern.--

(2) In the claims:

(i) Claims 5-14, 21-26, 28, 33-42, 49-54 and 56-70 haven been cancelled.

(ii) In claim 15, line 6, after "type," -- wherein the element type is a class, link, or any known object-oriented component of a software program-- has been inserted.

(iii) In claim 27, line 7, after " element type," -- wherein the element type is a class, link, or any known object-oriented component of a software program-- has been inserted.

(iv) In claim 43, line 8, after "type," -- wherein the element type is a class, link, or any known object-oriented component of a software program-- has been inserted.

(v) In claim 55, line 8, after " element type," -- wherein the element type is a class, link, or any known object-oriented component of a software program-- has been inserted.

REASON FOR ALLOWANCE

4. The following is an examiner's statement of reason for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a method for receiving an indication of an element type, wherein the element type is a class, link or any known object-oriented component of a software program; displaying a matching one of the plurality of patterns, the matching pattern having an associated element type that matches the received element type; receiving an indication of a variation;

modifying the matching pattern based on the variation; and generating software code reflecting

the modified matching pattern, wherein the software code is generated in the language, as recited

in the independent claims 1, 29.

The cited prior art taken alone or in combination fail to teach, in combination with the

other claimed limitations, a method for determining whether the first software element is capable

of playing the first role, when it is determined that the first software element is capable of

playing the first role, determining whether a second software element is capable of playing the

second role, when it is determined that the second software element is capable of playing the

second role, designating that the first software element plays the first role in the pattern and

designating that the second software element plays the second role in the pattern, as recited in the

independent claims 15, 43.

The cited prior art taken alone or in combination fail to teach, in combination with the

other claimed limitations, a method for receiving an indication that the first software element

corresponds to the first participant; replacing the first coded name of the first software element

with the first role name of the first participant; receiving an indication that the second software

element with the second role name of the second participant; and storing the code with the first

coded name and the second coded name as the pattern, as recited in the independent claims 27

and 55.

Conclusion

5.   The prior art made or record and not relied upon is considered pertinent to applicant's

disclosure.

TITLE: Program generating system for application-specific add-on boards using the
language of individuals, US 5768590 A

TITLE: Method and apparatus for generating object-oriented world wide web pages, US 6651108 B2

TITLE: Method and apparatus for pattern-based flowcharting of source code, US 6346945 B1

TITLE: Object-oriented software development support apparatus and development support method , US 6651240 B1

TITLE: One-pass greedy-pattern-matching finite-state-machine code generation, US 6748588 B1

TITLE: Method and apparatus for efficient operations on primary type values without static overloading, US 6085035 A

TITLE: Method and apparatus for monitoring display screen events in a screen-oriented software application tool, US 5485569 A

TITLE: Document schema transformation by patterns and contextual conditions, US 5915259 A.

TITLE: Generating Programming Language-based Pattern Matchers, author: Paul et al, ACM, October, 1993,

TITLE: A Pattern-Based Application Generator for Building Simulation, author: Schuetze et al, ACM, November, 1997.

TITLE: Using Design Patterns to Develop Reusable Object-Oriented Communication Software, author: Schmidt, ACM, October, 1995.

6.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chameli Das whose telephone number is 703-305-1339.

The examiner can normally be reached on Monday-Friday from 7:00 A.M. to 3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor Tuan Dam can be reached at 703-305-4552. The fax number for this group is (703)

872-9306.

After October 25, 2004, the examiner can be reached at new telephone number

(571) 272-3696, and the examiner's supervisor Tuan Dam can be reached at (571) 272-

3695.

An inquiry of general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is 703-305-9600.

Chamel·C–Don

CHAMELI DAS
PRIMARY EXAMINER

9 / 16 / 04